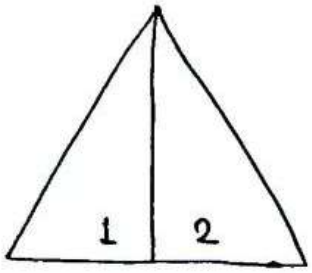
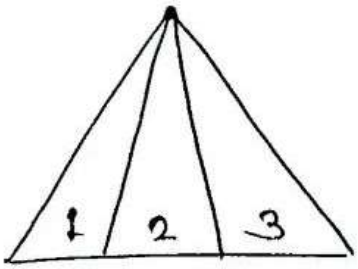
Triangle

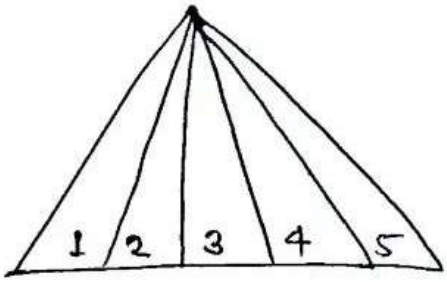
Type-1



Trick = 1+2 = 3 Ans

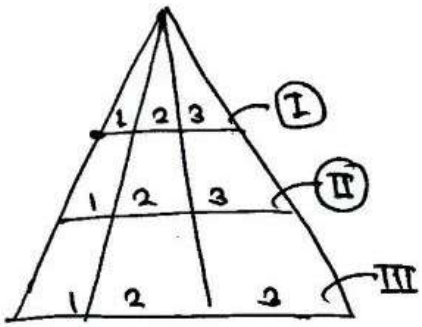


1+2+3
= 6 Ans



1+2+3+4+5
= 15 Ans

Type-2

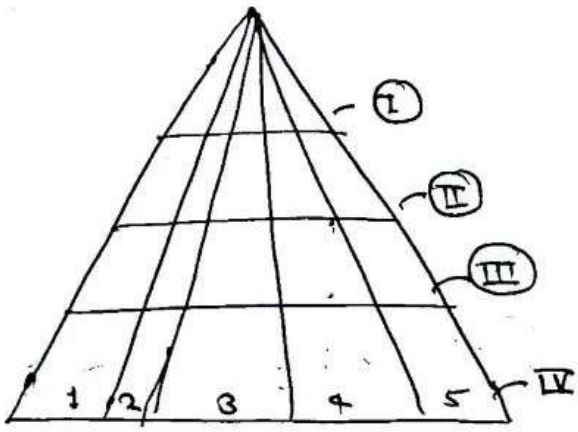


Ⓘ → 1+2+3 = 6

Ⓘⓘ → 1+2+3 = 6

Ⓘⓘⓘ → 1+2+3 = 6

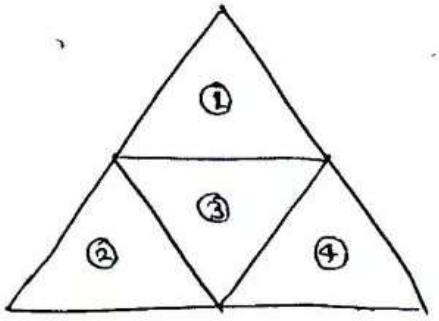
18 Ans



1+2+3+4+5 = 15

total = 15 x 4
= 60 Ans

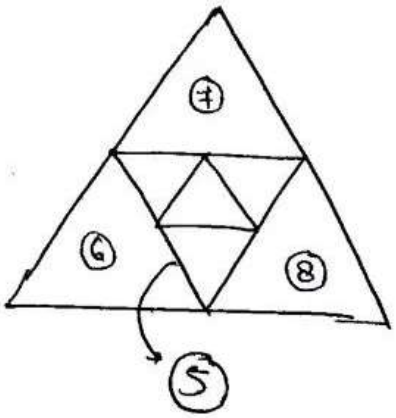
Type-4



Complete Δ

1

$4 + 1 = \boxed{5}$ triangle



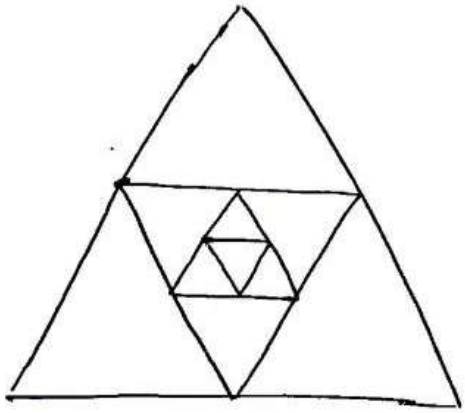
Big Δ

$8 + 1 = \boxed{9}$ triangle

OR

There are 2 smaller Δ's and one larger Δ.

Total = $\underbrace{4 + 4}_{\text{8 small}} + \underbrace{1}_{\text{larger}} = \boxed{9}$.



There are 3 smaller Δs

Total = $\underbrace{4 + 4 + 4}_{\text{3 small Δ}} + \underbrace{1}_{\text{Larger}}$

Total = $\boxed{13}$ triangle

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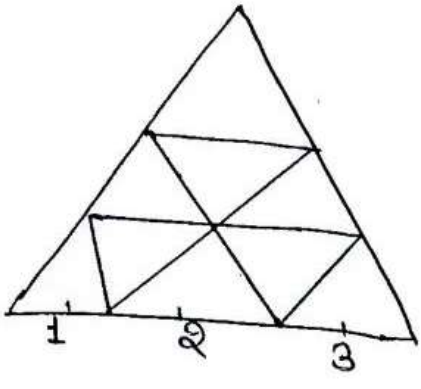
Type-5

Formula: $\frac{1}{8}[n(n+2)(2n+1)]$ if $n \to$ even

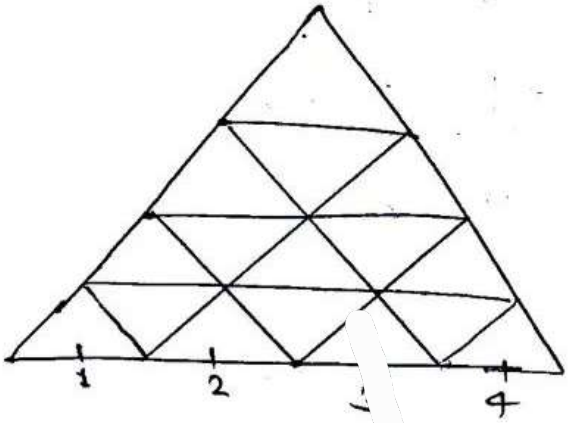
$\frac{1}{8}[n(n+2)(2n+1)-1]$ if $n \to$ odd



$n=3$

$\frac{1}{8}[3 \times 5 \times 7 - 1]$

$\frac{104}{8} = 13$ Triangle



$\frac{1}{8}(4 \times 6 \times 9) = 27$ triangle